

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,031,404 B2  
APPLICATION NO. : 09/730558  
DATED : April 18, 2006  
INVENTOR(S) : Timothy J. Lindquist

Page 1 of 5

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 1

Line 16, "coder" should read --coder.--; and  
Line 55, "In" should read --in--.

COLUMN 3

Line 7, "dimensions," should read --dimensions--;  
Line 21, "subband" should read --sub-band--;  
Line 32, "subbands" should read --sub-bands--;  
Line 54, "FIG. 1," should read --FIG. 1;--; and  
Line 66, "two" should read --two- --.

COLUMN 4

Line 13, "all" should read --an--;  
Line 15, "horizontal a" should read --a horizontal--;  
Line 22, "FIG. 13:" should read --FIG. 13;--;  
Line 40, "dimensions" should read --dimensions.--; and  
Line 58, "ie." should read --i.e.--.

COLUMN 5

Line 10, "(ie" (both occurrences) should read --(i.e.,--;  
Line 11, "(ie" should read --(i.e.,--;  
Line 12, "(ie" (both occurrences) should read --(i.e.,--;  
Line 18, "memory" should read --memory.--;  
Line 36, "(ie." should read --(i.e.,--;  
Line 42, "(ie." should read --(i.e.,--;  
Line 50, "ie." should read --i.e.,--;  
Line 54, "Bach" should read --Each--;  
Line 56, "respectively" should read --respectively.--; and  
Line 66, "downsampling" should read --down-sampling--.

COLUMN 6

Line 19, "ie," should read --i.e.,--  
Line 36, "ie." should read --i.e.,--;  
Line 41, "eg." should read --e.g.,--; and  
Line 65, "ie." should read --i.e.,--.

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COLUMN 7

Line 20, "ie" should read --i.e.--;  
Line 25, "implementation" should read --implementation--;  
Line 31, "ie" should read --i.e.--;  
Line 38, "upsampled" should read --up-sampled--; and  
Line 47, "described," should read --described--.

COLUMN 8

Line 19, "(ie." should read --(i.e.--;  
Line 20, "(ie." should read --(i.e.--  
Line 34, "eg." should read --e.g.--; and  
Line 40, "ie." should read --i.e.--.

COLUMN 9

Line 5, "eg." should read --e.g.--;  
Line 14, "sots" should read --sets--;  
Line 35, "(ie." should read --(i.e.--;  
Line 36, "depicted" should read --depicted--;  
Line 39, "eg." should read --e.g.--;  
Line 42, "eg." should read --e.g.--;  
Line 57, "a" should read --an--; and  
Line 64, "level 0" should read --level 0--.

COLUMN 10

Line 4, "eg." should read --e.g.--;  
Line 5, "eg." should read --e.g.--;  
Line 6, "eg." should read --e.g.--;  
Line 8, "(eg" should read --(e.g.--; and "witch" should read --which--;  
Line 12, "upconversion" should read --up-conversion--;  
Line 15, "eg." should read --e.g.--;  
Line 17, "(ie." should read --(i.e.--;  
Line 22, "ie." should read --i.e.--;  
Line 28, "eg." should read --e.g.--;  
Line 34, "eg." should read --e.g.--;  
Line 35, "eg." should read --e.g.--;  
Line 40, "(ie." should read --(i.e.--;  
Line 41, "eg." should read --e.g.--;

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COLUMN 10 (cont'd)

Line 46, "e.g." should read --e.g.,--;  
Line 55, "In" should read --in--; and  
Line 57, "eg." should read --e.g.,--.

COLUMN 11

Line 25, " $y_{ij-1}$ ." should read -- $y_{ij+1}$ --  
Line 47, " $y_{ij-1}^1$ " should read -- $y_{ij+1}^1$ --;  
Line 50, "(up sampled)" should read --(up-sampled)--; and  
Line 61, " $y_{ij-8}^{11}$ " should read -- $y_{ij-8}^{11}$ --.

COLUMN 12

Line 10, "sub-band-" should read --sub-band.--  
Line 15, "zero" should read --zero.--;  
Line 45, "respectively" should read --respectively.--; and  
Line 51, "feds" should read --feeds--.

COLUMN 13

Line 12, "re-arrangement" should read --rearrangement--;  
Line 50, "feds" should read --feeds--; and  
Line 59, "simultaneously" should read --simultaneously--.

COLUMN 14

Line 11, " $x_{i-3j}$ ." should read -- $x_{i-3j}$ --;  
Line 58, "shown)," should read --shown).--; and  
Line 60, "(up sampled)" should read --(up-sampled)--.

COLUMN 15

Line 38, "eg." should read --e.g.,--;  
Line 39, "eg." should read --e.g.,--;  
Line 40, "eg." should read --e.g.,--;  
Line 41, "eg." should read --e.g.,--;  
Line 44, "eg." should read --e.g.,--;  
Line 52, "eg." should read --e.g.,--;  
Line 54, "ie." should read --i.e.,--;

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COLUMN 15 (cont'd)

Line 57, "eg." should read --e.g.,--;  
Line 60, "convolves." should read --convolvers.--;  
Line 63, "one" should read --one- --; and  
Line 66, "ie." should read --i.e.,--.

COLUMN 16

Line 2, "eg." should read --e.g.,--;  
Line 9, "outputs" should read --output--;  
Line 16, "eg." should read --e.g.,--;  
Line 19, "eg" should read --e.g.,--;  
Line 21, "eg." should read --e.g.,--;  
Line 27, "required" should read --required.--;  
Line 29, "eg" should read --e.g.,--;  
Line 38, "two" should read --two- --;  
Line 41, "ie" should read --i.e.,--;  
Line 60, "example," should read --example.--; and  
Line 64, "product" should read --product.--.

COLUMN 17

Line 29, "IBM-PC'S" should read --IBM-PCs--;  
Line 34, "a-d" should read --and--; and  
Line 55, "sub functions" should read --sub-functions--.

COLUMN 19

Line 33, "wherein;" should read --wherein,--.

COLUMN 21

Line 1, "point" should read --points--; and  
Line 6, "are" should read --is--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 22

Line 3, "are" should read --is--.

Signed and Sealed this

Sixteenth Day of January, 2007

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*